

## A CASE STUDY

# Circular antenna UWB microstrip line feeding planar modified

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### ABSTRACT

In this paper we have investigated compact printed semicircular disc monopole antenna, which is basically printed microstrip antenna with etched ground plane for UWB applications. In particular we have simulated very compact semicircular disc monopole antennas for UWB communication. Simple rectangular microstrip line is used for feeding the printed monopole antenna and its frequency bandwidth under -10dB return loss is ranging from 3GHz to 11.6 GHz. This compact printed monopole antenna works well for the whole UWB frequency band 3.1-10.6GHz.

**KEY WORDS** : UWB, Semicircular, Printed monopole antenna, Microstrip line

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